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National Technical Information Service

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Indexed Bibliography of Office of Research and Development Reports

(U.S.) Environmental Protection Agency, Washington, DC

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JULY 1974

PB 286 627

Indexed Bibliography of Office of Research and Development Reports

Office of Research and Development
U.S. Environmental Protection Agency
Washington, D.C. 20460

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ORD ORGANIZATION

The Office of Research and Development consists of six major research organizations as listed below. Each is responsible **only** for those reports identified by the accompanying three digit code.

TO OBTAIN COPIES: Copies of individual reports may be obtained **only** from those sources contained in the **Bibliographic Section** under the heading **ORDER FROM.**

TO OBTAIN INFORMATION: Additional information regarding report content, pending publication dates, etc. may be obtained from the following sources according to the corresponding indentifier code shown below.

CODE	ORGANIZATION
600	ORD Headquarters (HQ) and Washington Environmental Research Center (WERC) EPA (RD-674) Washington, D.C. 20460 Phone: 202 426-2175 (HQ) 703 557-7484 (WERC)
650	National Environmental Research Center (NERC-RTP) EPA Research Triangle Park, NC 27711 Phone: 919 549-8411
660	National Environmental Research Center (NERC-Corvallis) EPA 200 S.W. 35th St. Corvallis, OR 97330 Phone: 503 752-4211, Ext. 440
670	National Environmental Research Center (NERC-Cincinnati) EPA 4676 Columbia Parkway Cincinnati, OH 45268 Phone: 513 684-2200, Ext. 258
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(Please read Instructions on the reverse before completing)

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2.

3. RECIPIENT'S ACCESSION NO.
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OFFICE OF RESEARCH & DEVELOPMENT
WASHINGTON, DC 20460

10. PROGRAM ELEMENT NO.
1RW103

11. CONTRACT/GRANT NO.
In-house

12. SPONSORING AGENCY NAME AND ADDRESS
Same

13. TYPE OF REPORT AND PERIOD COVERED
Bibliography 1967-1974

14. SPONSORING AGENCY CODE

15. SUPPLEMENTARY NOTES

16. ABSTRACT

This bibliography is a current listing of the Office of Research & Development's final reports on in-house, grant, contract, and interagency projects. Reports are indexed by Title, Program Area (subject), Performing Organization, Personal Author, Report Number, and Grant, Contract, or Interagency Agreement Number to aid the reader in identifying reports of interest. Instructions on how to order copies of reports are on the inside of the front cover.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Bibliography Technical reports Research projects corporate Authors Information retrieval Library science		05 02

18. DISTRIBUTION STATEMENT
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277

22. PRICE
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INSTRUCTIONS

1. **REPORT NUMBER**
Insert the EPA report number as it appears on the cover of the publication.

2. **LEAVE BLANK**

3. **RECIPIENTS ACCESSION NUMBER**
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4. **TITLE AND SUBTITLE**
Title should indicate clearly and briefly the subject coverage of the report, and be displayed prominently. Set subtitle, if used, in smaller type or otherwise subordinate it to main title. When a report is prepared in more than one volume, repeat the primary title, add volume number and include subtitle for the specific title.

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Each report shall carry a date indicating at least month and year. Indicate the basis on which it was selected *(e.g., date of issue, date of approval, date of preparation, etc.)*.

6. **PERFORMING ORGANIZATION CODE**
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7. **AUTHOR(S)**
Give name(s) in conventional order *(John R. Doe, J. Robert Doe, etc.)*. List author's affiliation if it differs from the performing organization.

8. **PERFORMING ORGANIZATION REPORT NUMBER**
Insert if performing organization wishes to assign this number.

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Give name, street, city, state, and ZIP code. List no more than two levels of an organizational hirearchy.

10. **PROGRAM ELEMENT NUMBER**
Use the program element number under which the report was prepared. Subordinate numbers may be included in parentheses.

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Insert contract or grant number under which report was prepared.

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Include ZIP code.

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Indicate interim final, etc., and if applicable, dates covered.

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Enter information not included elsewhere but useful, such as: Prepared in cooperation with, Translation of, Presented at conference of, To be published in, Supersedes, Supplements, etc.

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Include a brief *(200 words or less)* factual summary of the most significant information contained in the report. If the report contains a significant bibliography or literature survey, mention it here.

17. **KEY WORDS AND DOCUMENT ANALYSIS**
(a) DESCRIPTORS - Select from the Thesaurus of Engineering and Scientific Terms the proper authorized terms that identify the major concept of the research and are sufficiently specific and precise to be used as index entries for cataloging.

(b) IDENTIFIERS AND OPEN-ENDED TERMS - Use identifiers for project names, code names, equipment designators, etc. Use open-ended terms written in descriptor form for those subjects for which no descriptor exists.

(c) COSATI FIELD GROUP - Field and group assignments are to be taken from the 1965 COSATI Subject Category List. Since the majority of documents are multidisciplinary in nature, the Primary Field/Group assignment(s) will be specific discipline, area of human endeavor, or type of physical object. The application(s) will be cross-referenced with secondary Field/Group assignments that will follow the primary posting(s).

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EPA-600/9-74-001
July 1974

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of
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by
PUBLICATIONS STAFF
Office of Program Management

Office of Research and Development
U.S. Environmental Protection Agency
401 M Street S. W. (RD-674)
Washington, DC 20460

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INTRODUCTORY SECTION

BACKGROUND

In December of 1971, the Federal Water Quality Administration (FWQA) became the U. S. Environmental Protection Agency (EPA). At this same time, several other federal pollution control activities became a part of EPA. On July 1, 1973, the Office of Research and Monitoring was redesignated Office of Research and Development (ORD).

This Bibliography identifies all reports issued by these offices for the periods indicated below:

FWQA Water Pollution Control Research Series — to July 1972

Office of Research & Monitoring (ORM), EPA — to July 1973

Office of Research & Development (ORD), EPA — to July 1974

Beginning July 1972, the Office of Research & Monitoring, now Office of Research & Development (ORD), research reports were grouped into series. These series were established to facilitate further development and application of environmental technology and previous groupings were eliminated to improve technology transfer and provide for maximum interface with related fields. Following establishment of these ORD-wide series all existing series designations, such as the Water Pollution Control Research Series, were discontinued.

In conjunction with the new ORD series designations, a report numbering system for all ORD research reports was also established. This numbering system is keyed to the report series assigned to the report and the following is a description of the system, including identifying report cover colors, which are also series related. This series identification pertains to all reports issued after July 1972.

Beginning July 1973, an Agency-wide numbering system (EPA-6nn/n-73-xxx) superseded the former ORD numbering system (EPA-Rn-73-xxx). This Agency-wide system is a direct extension of the former ORD system. All ORD reports are still classified into one of the series as described on the following page. A detailed explanation of this new system appears under **Report Numbering Systems**.

INTRODUCTORY SECTION

SERIES DESCRIPTIONS

SERIES 1 – ENVIRONMENTAL HEALTH EFFECTS RESEARCH (yellow covers)

This series describes projects and studies relating to the tolerances of man for unhealthful substances or conditions. This work is generally assessed from a medical viewpoint, including physiological or psychological studies. In addition to toxicology and other medical specialities, study area include biomedical instrumentation and health research techniques utilizing animals – but always with intended application to human health measures.

SERIES 2 – ENVIRONMENTAL PROTECTION TECHNOLOGY (light blue covers)

This series describes research performed to develop and demonstrate instrumentation, equipment and methodology to repair or prevent environmental degradation from point and non-point sources of pollution. This work provides the new or improved technology required for the control and treatment of pollution sources to meet environmental quality standards.

SERIES 3 – ECOLOGICAL RESEARCH (light green covers)

This series describes research on the effects of pollution on humans, plant and animal species, and materials. Problems are assessed for their long- and short-term influences. Investigations include formation, transport, and pathway studies to determine the fate of pollutants and their effects. This work provides the technical basis for setting standards to minimize undesirable changes in living organisms in the aquatic, terrestrial and atmospheric environments.

SERIES 4 – ENVIRONMENTAL MONITORING (gray covers)

This series describes research conducted to develop new or improved methods and instrumentation for the identification and quantification of environmental pollutants at the lowest conceivabley significant concentrations. It also includes studies to determine the ambient concentrations of pollutants in the environment and/or the variance of pollutants as a function of time or meteorological factors.

SERIES 5 – SOCIOECONOMIC ENVIRONMENTAL STUDIES (rust covers)

This series describes research on the socioeconomic impact of environmental problems. This covers recycling and other recovery operations with emphasis on monetary incentives. this mon-scientific realms of legal systems, cultural values, and business systems are also involved. Because of their interdisciplinary scope, system evaluations and environmental management reports are included in this series.

SERIES 9 – MISCELLANEOUS (white covers)

This series is used for all reports issued by ORD not applicable to one of the series described above.

INTRODUCTORY SECTION

REPORT NUMBERING SYSTEMS

This Bibliography contains three sets of report numbers. Each set is described below with the dates it was used.

July 1973 to Present (600 Reports)

Sample Number: EPA-670/3-74-002c

EPA	Identifies all Environmental Protection Agency Reports
670	Identifies one of the following major ORD organizations responsible for preparing report. See inside front cover for mailing addresses.

600	ORD Headquarters and WERC
650	NERC-RTP
660	NERC-Corvallis
670	NERC-Cincinnati
680	NERC-Las Vegas
SAB	Science Advisory Board

/3	Indicates assigned report series. (Refer to previous series descriptions.)
74	Indicates last two digits of year of publication.
002	Indicates the serial number which is: (a) sequentially assigned, and (b) unique within a series.
c	Indicates an expanded serial number as required to designate one part of a set of reports. (In this case the third report of a set.)

July 1972 to July 1973 (R Reports)

Sample Number: EPA-R2-72-007a

EPA	Identifies all Environmental Protection Agency Reports
R2	Letter **R** is identifier for all **ORM/ORD** research reports. The number indicates assigned report series. (Refer to previous series descriptions.)
72	Indicates last tow digits of year of publication.
007	Indicates the serial number which is: (a) sequentially assigned, and (b) unique within a series.
a	Indicates an expanded serial number as required to designate one part of a set of reports. (In this case the first report of a set.)

INTRODUCTORY SECTION

Prior to July 1972 (Water Pollution Control Research Series, FWQA)

Sample Number: 11010 EGO 01/71

11010	Identifies the program area and element. The first two digits (11) identify the Major **Program Area**, the final three digits (010) identify the **Program Element** within this Program Area. Each Program Area may include any number of program element numbers. (refer to **Users Guide to Bibliography**) Within the **Bibliographic Section** the designation (1101) will appear below the heading "P.E. No.".
EGO	Unique designator for report.
01/71	Month and last two digits of year report was completed.

INTRODUCTORY SECTION

USER'S GUIDE TO BIBLIOGRAPHY

The complete BIBLIOGRAPHY contains a bibliographic section and five indexes. Within each index reports are referenced to the BIBLIOGRAPHIC SECTION by report number.

Bibliographic Section

This is a complete listing of all reports contained in this Bibliography. Three sets of report numbers appear as separate listings in the following order:

R Reports (Example: R1-73-002)
Water Pollution Control Research Series (Example: 11010EGO01/71)
600 Reports (Example: 670/2-74-001)

This section contains complete information for each report. Refer to the page HOW TO ORDER for instructions on obtaining copies.

Title Index

All reports are listed alphabetically by title, excluding A, An, The as beginning words of titles.

Program Area Index

The entire research program of ORD is divided into ten major program areas which are described in detail on the following pages. Within each major program area, sub-areas are called program elements (i.e., 1BB037, 1101). Each research project, depending on the subject matter of the research, is assigned a program element number (P.E. No.). The P.E. No. (which appears in the second column of the Bibliographic Section) is unique to a program area. Hence, a program area may contain any number of program elements but any assigned program element number will only fall within one program area.

This index lists within each program area, in alphabetical order, those reports dealing with research in that area. Each title appears only one.

Since some reports do not fit within these ten program areas, a Miscellaneous Reports category has been included. Reports such as bibliographies, annual reports, etc. are listed in this Miscellaneous Category.

Performing Organization Index

This is an alphabetical listing of the organization which actually did the research. In the case of a grant or contract the organization is the grantee or contractor. In the case of an in-house report the organization is the EPA laboratory or office.

INTRODUCTORY SECTION

Personal Author Index

This is a complete alphabetical listing of all authors of reports contained in the Bibliographic Section.

Index of R Report Numbers

As an aid to librarians, this index is a sequential listing of all active numbers in the R Report set.

INTRODUCTORY SECTION

PROGRAM AREA DESCRIPTIONS

HEALTH EFFECTS PROGRAM AREA

Health effects research is directed toward assessment of health hazards associated with environmental pollution from a number of media and categories including air, water, pesticides, radiation and noise. Various disciplines are brought together for this purpose. Major program emphasis is devoted to the Community Health and Environmental Surveillance Studies (CHESS) Program. CHESS consists of a series of epidemiologic studies in various communities throughout the United States whose objectives are to evaluate the effects of exposure to common pollutants upon sensitive health indicators.

Complementing CHESS is the Biomedical Research Program which is directed at assessing, at the community level, the effects of pollutants upon human physiology. Evaluations of health effects resulting from community level environmental pollution and classical and innovative toxicologic research studies are conducted. Scientific information on the health effects associated with exposures to fuels, fuel additives and their combustion products is collected. Pesticides, radiation and specific toxic substances are evaluated in studies conducted within this program area.

The cumulative output from all of these programs will provide needed health intelligence required to formulate environmental policies protective of public health.

ECOLOGICAL PROCESSES AND EFFECTS PROGRAM AREA

The ecological processes and effects research area is responsible for determining the effects of air and water pollutants on the structure and function of ecosystems and on biotic and abiotic subcomponents of these ecosystems. One major objective of the program is to develop scientific information necessary for water quality criteria and secondary air quality criteria.

Programs on aquatic systems are conducted to determine the effects of pollutants such as temperature, pesticides and heavy metals on fresh and marine water fish, invertebrates and their food chain organisms. Acute and chronic effects of pollutants on life stages of the organisms are determined.

Investigations of the effects of major air pollutants on crops and vegetation are conducted to provide information for establishing secondary ambient air quality standards. Specific studies of the effects of NO_x, SO_x, hydrocarbons, and oxidants are conducted on representative terrestrial ecosystems.

Also included are studies of alternative methods of pest control. These efforts are aimed at the reduction of dependence upon persistent chemical pesticides. Non-chemical methods of pest control with great specificity on target organisms and little or no effects on non-target organisms are sought.

A second major objective of this program area is to determine a chemical, physical and biological process associated with sources, pathways, persistences, and fates of pollutants in ecosystems. The results of these studies along with results from effects and other research areas provide the scientific and technical basis for control and abatement actions.

MUNICIPAL POLLUTION CONTROL PROGRAM AREA

The Municipal Pollution Control Program Area covers the research, development and demonstration of new or improved technology applicable to the control and treatment of wastewaters generated in and discharged from the urban environment. Pertinent technical areas include unit processes and systems applicable to treatment of municipal sewage to effect the removal of organic materials and other pollutants; control and treatment of wastewaters discharged from sewer systems carrying both storm water and sewage (combined sewers) and urban storm water discharges. The entire urban drainage system is, therefore, included in the Municipal Water Control Technology Program.

Beyond the basic development and demonstration of processes and systems, efforts are also directed to process control and instrumentation, computerized systems for process simulation and evaluation and non-pollutional disposal and/or utilization of sludges and concentrated pollutants resulting from treatment.

Several specialized areas of emphasis are included in the Municipal Water Control Technology Area. The treatment of municipal wastewaters in cold climates (sub-arctic and arctic areas) is one of these. A unique portion of this cold climate research and development is directed to the provision of effective water supply, wastewater treatment and general sanitation facilities for native Alaskan villages.

The treatment and utilization of both liquid and solid fractions of wastewater by application to the soil is a separately identified technical area, as is the improvement of existing and development of new treatment and disposal methods applicable for individual home use.

INDUSTRIAL POLLUTION CONTROL PROGRAM AREA

The objectives within the Industrial Pollution Control Program Area are to develop and implement full-scale demonstrations and field evaluations of new or improved waste treatment or economical control processes and measures resulting from new knowledge developed through EPA and/or external research efforts on industrial manufacturing pollution abatement methods.

Program efforts will be directed toward demonstrating the best practicable, best available and zero pollution control technology with emphasis on water reuse and product-by-product recovery. The industries of concern are the manufacturing industries as defined by the SIC (Standard Industrial Classification) Major Group 19—39.

NON-POINT POLLUTION CONTROL PROGRAM AREA

The Nonpoint Pollution Control Program Area has as its general objective the development of information, decision-making tools and technology required to: (1) predict and assess the impact of pollutants from non-point sources on waters from various land use patterns; (2) determine the reduction in pollutant load which would result from implementation of specific non-point source controls and the costs of achieving these reductions to meet established water quality standards; (3) establish limits of reasonable controllability for non-point sources including an assessment of discharges resulting from mans activities and those which would occur in the absence of man's activities, and (4) establish specific control guidelines for non-point sources to serve as the basis for application of enforceable controls to local conditions.

Specific objectives are to develop cost effective non-point management systems, including alternatives appropriate for implementation in various geographical and geological areas with different climate and rainfall runoff patterns in the following areas:

(1) Agricultural activities including forestry and logging operations; agricultural runoff; irrigation return flows; confined animal feeding; aquaculture and disposal of nonagricultural sludges; to crop land. The development and demonstration mode will emphasize concepts which either maximize the potential for recycle or reuse (animal wastes, irrigation systems) or

minimize adverse impact for "once through" systems (e.g., pesticide runoff). New and improved management concepts, fertilizer and pesticide formulations and application methods, and structural and equipment changes will be evaluated.

(2) Control of water pollution from active mining operations including the extraction process and those cleaning, milling, beneficiation processes necessary to produce a marketable product and abandoned mining sites. The objective is to allow mining to be carried on in the future without causing environmental degradation.

(3) Control of water pollution from hydrological modifications such as construction, dredging, landfill and water resources development. These activities have the common environmental impact of causing substantial changes in the local or area hydrologic patterns.

(4) Oil and hazardous material spills prevention, control and clean-up. The objective is to develop an array of countermeasures to contain spills, to prevent them from entering watercourses, and to control and remove those that reach waters and minimize damage to resources and to the water ecosystem. The variability of hazardous materials necessitates development of a wide range of countermeasures.

AIR POLLUTION CONTROL PROGRAM AREA

The primary objective of this program area is to assure the availability of control devices, processes, and approaches for control of air pollutants at their source. Programs range in scope from basic research and development activities through the design, construction, and operation of full-scale demonstration systems. Research, development, and demonstration programs are implemented principally through contracts with industrial firms and other governmental agencies. Approximately 10% of the research is conducted in in-house facilities. Portions of the more long-range and fundamental research and development activities are conducted through research grants with non-profit organizations, principally colleges and universities.

The air pollution control technology activities are currently grouped into four principal areas: (1) sulfur oxides, (2) nitrogen oxides, (3) particulates, and (4) hazardous and other pollutants. A major portion of the program is devoted to research and development of technology for the control of sulfur oxide emissions. Historically, this research has focused on control of sulfur oxide emissions from electric power generating plants. More recently, increased attention is being given to the control of industrial combustion and industrial process sources.

Activity on nitrogen oxide control research is expanding rapidly to support control technology needs and regulatory requirements. The primary thrust of the ongoing nitrogen oxide research and development is in the area of combustion control. Increasing attention is being given to nitrogen oxide effluent treatment processes.

Particulate control research and development must cope with the needs for fine particulate control technology and improved and more economic conventional technologies. Reliable methods for measuring fine particulate as well as the development of high efficiency methods and equipment for controlling fine particulates in the 0.05 to 3.0 micron size range are being emphasized.

The hazardous and other pollutant control category embraces control technology for all air pollutants not classified within one of the above three categories. This includes the development of technology for control of hydrocarbons from stationary source, halides, and similar pollutants. Special emphasis is being placed on the control of hazardous and potentially hazardous pollutants including mercury, beryllium, asbestos, cadmium, vanadium, chromium, lead, etc.

INTRODUCTORY SECTION

PROGRAM AREA DESCRIPTIONS

DATA AND INFORMATION RESEARCH PROGRAM AREA

The Data and Information Research Program Area is responsible for planning, coordinating, establishing, reviewing and assessing research, development and appropriate demonstration programs aimed at the establishment of effective research information and data systems, including multimedia or multi-pollutant data analysis and special data handling and processing studies.

EQUIPMENT AND TECHNIQUES PROGRAM AREA

The principal objective of research conducted or supported within the Equipment and Techniques Program Area is to develop methods and instrumentation for the detection, identification, and quantification of pollutants in all media at the lowest significant concentration. This research is necessary to provide measurements on the causes, extent, effects and control of pollution and to assist in the setting of standards and determining compliance with standards.

Thus, the Equipment and Techniques Area is directed towards the development of instrumentation and methods for the detection and quantitative identification of chemical and biological pollutants in air and water, toxic residues in plant and animal tissues and physical pollutants such as heat, radiation and noise in the environment. State-of-the-art reviews, prototype instrumentation development, and pioneering research studies related to the development of new or significantly improved analytical methods or instrumentation are supported.

QUALITY ASSURANCE PROGRAM AREA

The objectives of the Quality Assurance Program Area are the planning, establishing, and coordinating an Agency-wide standardization and quality control program to assure that environmental data produced by Federal, State, and local agencies are compatible, accurate, and legally defensible and assuring the selection, evaluation, standardization, and publication of procedures and methods for sampling and analyzing environmental pollutants.

SOCIOECONOMIC RESEARCH PROGRAM AREA

The Socio-Economic Research Program Area consists of a program of interdisciplinary research aimed at the development and demonstration of the analytic and management techniques required to implement Agency programs at the national, regional and local levels. Such management and analytic tools are necessary to accomplish and validate Agency policy, strategy, decisions, standards, regulations and plans.

Research is accomplished by teams of professional personnel of various disciplines focused in three general areas:

(1) Ecological Impact Analysis: Analysis of institutional effects of various environmental policies; development of comprehensive environmental planning and management capability.

(2) Resource Analysis: Analysis of economic aspects of environmental actions including cost-benefit, cost-risk benefit and trade-off analysis.

(3) Implementation and Methods Analysis: Development of forecasting capability to enable Agency and other decision-makers to anticipate long-range impact of human and institutional activities on the environment.

INTRODUCTORY SECTION

HOW TO ORDER

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GPO	When GPO is indicated with a number and a price, paper copy is available from the Superintendent of Documents, Government Printing Office, Washington, DC 20402. The **order number** indicated **must** be used. (Where no number appears, the report number should be used.) For **alternate** GPO sources, see the following list of GPO Bookstores. (see Examples 1, 2, 4 below)
NTIS	When NTIS is indicated with a number and a price, paper copy is available from the National Technical Information Service, 5285 Port Royal Road Springfield, VA 22151. The indicated **NTIS** Order Number **must** be used. Whenever NTIS has paper copy it also has microfiche copy. (see Examples 2, 3 below)
NTIS	When NTIS is indicated with a number but no price, the report is available from NTIS in microfiche only. All microfiche is $2.25. (See Example 1, 5 below)

EXAMPLES:

(1) **ORDER FROM:** GPO EP 1.23/2:660/2-73-002 $2.20 NTIS PB 233 011

Available from GPO in paper copy at $2.20 and from NTIS in microfiche at $2.25

(2) **ORDER FROM:** GPO EP 1.23/2:600/2073-200 $1.85 NTIS PB 231 032 $4.00

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(3) **ORDER FROM:** NTIS PB 227 041 $3.75

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(5) **ORDER FROM:** NTIS PB 227 033

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INTRODUCTORY SECTION

GOVERNMENT PRINTING OFFICE BOOKSTORES

The following is a list of U.S. Government Printing Office Bookstores. A typical bookstore stocks approximately 1,500 different publications and provides access to the 20,000 publications available by mail order order from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

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EPA-R2-72-123	1701	**Ammonia Removal in a Physical-Chemical Wastewater Treatment Process** BY R. A. Barnes, and D. A. Scherger, Environmental Control Technology Corporation Ann Arbor, MI Ayres, Lewis, Norris and May, Incorporated Ann Arbor, MI **ORDER FROM: GPO-**EP1.23/2:R2-72-123 $1.25 **NTIS-PB** 214 531
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EPA-R2-72-126	1AA010	**Development of Methods for Sampling and Analysis of Particulate and Gaseous Fluorides from Stationary Sources** BY E. T. Peters, J. E. Oberholtzer, and J. R. Valentine, Arthur D. Little, Incorporated Cambridge, MA **ORDER FROM: NTIS-PB** 213 313 $5.45
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EPA-R2-73-024	1206	**Cannery Wastewater Treatment with Rotating Biological Contactor and Extended Aeration** BY M. W. Cochrane, R. J. Burm, and K. A. Dostal, Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR **ORDER FROM: GPO-**EP1.23/2:R2-73-024 90¢ **NTIS-PB** 221 333
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EPA-R2-73-084a	1AB015	**Field Investigation of Emissions from Combustion Equipment for Space Heating** Battelle Columbus Laboratory Columbus, OH **ORDER FROM: NTIS-PB** 223 148 $5.50
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EPA-R2-73-085	1210	**Influence of Log Handling on Water Quality, The** BY F. D. Schaumburg, Oregon State University Corvallis, OR **ORDER FROM: GPO-**EP1.23/2:R2-73-085 $1.25 **NTIS-PB** 219 824
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EPA-R2-73-173a	1AB013	**Chemical Desulfurizer of Coal: Report of Bench-Scale Developments – Vol. I** BY J. W. Hamersma, TRW Systems Group, Incorporated Redondo Beach, CA **ORDER FROM: NTIS-PB** 221 405 $6.00
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EPA-R2-73-179d	1608	**Water Pollution Potential of Manufactured Products, Catalog Section III – Chemical Ingredient Listing** BY J. B. Berkowitz, V. R. Valeri, and G. R. Schimke, Arthur D. Little, Incorporated Cambridge, MA **ORDER FROM: GPO-**EP1.23/2:R2-73-179d $3.70 **NTIS-PB** 222 250
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EPA-R5-72-003	1DA312	**Metropolitan Housewives' Attitudes Toward Solid Waste Disposal** National Analysts, Incorporated Philadelphia, PA **ORDER FROM: GPO-**EP1.23/3:R5-72-003 $1.50 **NTIS-PB** 213 340 $5.45
EPA-R5-72-004	1DA312	**Investment Decision Model for Control Technology, An** BY R. M. Clarke, National Environmental Research Center, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 213 482 $3.00
EPA-R5-72-005	1RW103	**NERC/RTP Research Projects - Fiscal Year 1973 - Summaries of Intramural and Extramural Active Research Projects** National Environmental Research Center, Office of the Director, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 220 259 $6.00
EPA-R5-72-006	1AA004	**Study of the Economic Effects of Changes in Air Quality** BY C. R. Vars, and G. W. Sorenson, Oregon State University, Air Resources Center Corvallis, OR **ORDER FROM: NTIS-PB** 219 993 $3.00
EPA-R5-72-007	1AA004	**Effects of Air Pollution on Public Attitudes and Knowledge** BY R. G. Mason, Oregon State University, Air Resources Center Corvallis, OR **ORDER FROM: NTIS-PB** 212 739 $6.00
EPA-R5-72-009	1AA004	**Assessment of Air Pollution Damage to Vegetation in New England, July 1971 - 1972** BY J. Naegele, W. Feder, and C. J. Brandt, Massachusetts, University of Waltham, MA **ORDER FROM: NTIS-PB** 214 161 $3.00
EPA-R5-72-010	1AA004	**1971 Survey and Assessment of Air Pollution to Vegetation in New Jersey** BY A. Feliciano, Rutgers State University New Brunswick, NJ **ORDER FROM: NTIS-PB** 214 160 $3.00
EPA-R5-73-008	1611	**Economic Benefits from an Improvement in Water Quality** BY S. D. Reiling, K. C. Gibbs, and H. H. Stoevener, Oregon State University Corvallis, OR **ORDER FROM: GPO-**EP1.23/3:R5-73-008 $2.10 **NTIS-PB** 219 474
EPA-R5-73-011	1RW103	**Environmental Volunteers of America, Findings and Recommendations of the Steering Committee of the National Center for Voluntary Action's Environmental Project** BY C. L. Zinger, R. Dalse[illegible] and H. Magarle, National Center for Voluntary Action Washington, DC **ORDER FROM: NTIS-PB** 214 186 $12.50
EPA-R5-73-012	1RW103	**Bibliography of R&M Research Reports** Office of Research and Development, Publications Branch, Research Research Information Division, EPA Washington, DC **ORDER FROM:** Replaced by Current Bibliography
EPA-R5-73-013	1611	**Northern Maine Regional Treatment System, The** BY J. A. Barresi, J. Gammon, and R. E. Hunter, Maine Regional Planning Commission, Northern Presque Isle, ME **ORDER FROM: GPO-**EP1.23/3:R5-73-013 $3.45 **NTIS-PB** 221 346

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EPA-R5-73-014	1609	**Data Acquisition Systems in Water Quality Management** BY R. C. Ward, Colorado State University Fort Collins, CO **ORDER FROM: GPO-**EP1.23/3:R5-73-014 $2.85 **NTIS-PB** 222 622
EPA-R5-73-015	1611	**Toward a Philosophy of Planning: Attitudes of Federal Water Planners** BY R. H. Wilson, Stanford University Stanford, CA **ORDER FROM: GPO-**EP1.23/3:R5-73-015 $2.60 **NTIS-PB** 221 433 $5.10
EPA-R5-73-016	1BA030	**Economic Feasibility of Minimum Industrial Waste Load Discharge Requirements** BY H. C. Bramer, Datagraphics, Incorporated Pittsburgh, PA **ORDER FROM: GPO-**EP1.23/3:R5-73-016 $2.10 **NTIS-PB** 221 490
EPA-R5-73-017	1HA094	**Cost Analysis of Water Pollution Control: An Annotated Bibliography** BY D. P. Tihansky, Office of Research and Development, Implementation Research Division, EPA Washington, DC **ORDER FROM: NTIS-PB** 221 146 $22.00
EPA-R5-73-018	1611	**Environmental Protection Through Public and Private Development Controls** BY A. L. Strong, and J. C. Keene, Pennsylvania, Unversity of Philadelphia, PA **ORDER FROM: GPO-**EP1.23/3:R5-73-018 $2.10 **NTIS-PB** 222 587
EPA-R5-73-019	1611	**Stream Quality Preservation Through Planned Urban Development** BY R. E. Coughlin, and T. R. Hammer, Regional Science Research Institute Philadelphia, PA **ORDER FROM: NTIS-PB** 222 177
EPA-R5-73-020	1609	**Michigan Water Resources Enforcement and Information System** BY G. Guenther, D. Mincavage, and F. Morley, Michigan Water Resources Commission Lansing, MI **ORDER FROM: GPO-**EP1.23/3:R5-73-020 $1.75 **NTIS-PB** 224 800/AS
EPA-R5-73-021	1HA093	**Energy Conservation Strategies** BY M. S. Seidel, S. E. Plotkin, and R. O. Reck, Office of Research and Development, Implementation Research Division, EPA Washington, DC **ORDER FROM: GPO-**EP1.23/3:R5-73-021 $1.55 **NTIS-PB** 224 493/AS $9.25
EPA-R5-73-022	1AA004	**1972 Survey and Assessment of Air Pollution Damage to Vegetation in New Jersey** BY E. J. Pell, Rutgers University New Brunswick, NJ **ORDER FROM: NTIS-PB** 223 089 $4.25
EPA-R5-73-023a	1BA030	**Capital and Operating Costs of Pollution Control Equipment Modules, Volume I: Users' Guide** BY H. C. Blecker, and T. W. Cadman, ICARUS Corporation Silver Spring, MD **ORDER FROM: GPO-**EP1.23/3:R5-73-023a $2.40 **NTIS-PB** 224 535/AS $4.90
EPA-R5-73-023b	1BA030	**Capital and Operating Costs of Pollution Control Equipment Modules, Volume II: Data Manual** BY H. C. Blecker, and T. M. Nichols, ICARUS Corporation Silver Spring, MD **ORDER FROM: GPO-**EP1.23/3:R5-73-023b $1.90 **NTIS-PB** 224 536/AS $3.90
EPA-R5-73-024	1BA030	**Environmental Impact Requirements in the States** BY T. C. Tryzna, California Public Affairs, Center for Claremont, CA **ORDER FROM: NTIS-PB** 223 748/AS $3.00

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EPA-SAB-73-001	1HA410	**Nitrogenous Compounds in the Environment** Office of Research and Development, Science Advisory Board, EPA Washington, DC **ORDER FROM: GPO-** EP1.2:N63 – $2.20
EPA-11010EGO01/71	1101	**Phosphorus Removal by Ferrous Iron and Lime** Rand Development Corporation Cleveland, OH Lake, County of Painesville, OH **ORDER FROM: GPO** $1.00 **NTIS-PB** 208 208
EPA-11010ESQ08/71	1101	**Design Guides for Biological Wastewater Treatment Process** Austin, City of Austin, TX Texas, University of, Center for Research in Water Resources Austin, TX **ORDER FROM: GPO** $1.75
EPA-11010EVE01/71	1101	**Evaluation of Conditioning and Dewatering Sewage Sludge by Freezing** Milwaukee, Sewerage Commission of the City of Milwaukee, WI **ORDER FROM: GPO** 70¢ **NTIS-PB** 213 122
EPA-11010FLQ03/71	1101	**Phosphorus Removal with Pickle Liquor in an Activated Sludge Plant** Milwaukee, Sewerage Commission of the City of Milwaukee, WI **ORDER FROM: GPO** $1.25 **NTIS-PB** 208 216
EPA-11010FMY10/70	1101	**Engineering Feasibility Demonstration Study for Muskegon County, Michigan Wastewater Treatment-Irrigation System** Muskegon County Board Muskegon, MI Muskegon Department of Public Works Muskegon, MI **ORDER FROM: GPO** $1.50 **NTIS-PB** 197 447
EPA-11020---09/67	1102	**Demonstrate the Feasibility of the Use of Ultrasonic Filtration in Treating the Overflows from Combined and/or Storm Sewers** Acoustica Association, Incorporated Los Angeles, CA **ORDER FROM: NTIS-PB** 201 745 $3.00
EPA-11020---12/67	1102	**Problems of Combined Sewer Facilities and Overflows – 1967** American Public Works Association Chicago, IL **ORDER FROM: GPO** $1.00 **NTIS-PB** 214 469 $3.00
EPA-11020---05/68	1102	**Feasibility of a Stabilization-Retention Basin in Lake Erie at Cleveland, Ohio** Havens and Emerson Cleveland, OH **ORDER FROM: NTIS-PB** 195 083 $3.00
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EPA-11020---03/70	1102	**Combined Sewer Overflow Seminar Papers** Federal Water Quality Administration, Storm and Combined Sewer Pollution Control Branch, Division of Applied Science and Technology Washington, DC **ORDER FROM: NTIS-PB** 199 361 $3.00
EPA-11020---02/71	1102	**Deep Tunnels in Hard Rock** Wisconsin, University of, College of Applied Science and Engineering and University Extension Milwaukee, WI **ORDER FROM: GPO** $1.75 **NTIS-PB** 210 854

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EPA-11020DGZ10/69	1102	**Design of a Combined Sewer Fluidic Regulator** Bowles Engineering Corporation Silver Spring, MD **ORDER FROM: NTIS-PB** 188 914 $3.00
EPA-11020DHQ06/72	1102	**Ground Water Infiltration and Internal Sealing of Sanitary Sewers, Montgomery County, Ohio** BY G. E. Cronk, Montgomery County Sanitary Department Dayton, OH **ORDER FROM: GPO** 75¢ **NTIS-PB** 212 267
EPA-11020DIG08/69	1102	**Polymers for Sewer Flow Control** Western Company Richardson, TX **ORDER FROM: NTIS-PB** 185 951 $3.00
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EPA-11020DNO08/67	1102	**Feasibility of a Periodic Flushing System for Combined Sewer Cleansing** FMC Corporation Santa Clara, CA **ORDER FROM: NTIS-PB** 195 223 $3.00
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EPA-11020DWF12/69	1102	**Control of Pollution by Underwater Storage** Underwater Storage, Incorporated Washington, DC Silver Schwartz, Limited Washington, DC **ORDER FROM: GPO** $1.75 **NTIS-PB** 191 217
EPA-11020EKO10/69	1102	**Combined Sewer Separation Using Pressure Sewers** American Society of Civil Engineers Cambridge, MA **ORDER FROM: NTIS-PB** 188 511 $3.00
EPA-11020EXV07/69	1102	**Strainer/Filter Treatment of Combined Sewer Overflows** Fram Corporation East Providence, RI **ORDER FROM: NTIS-PB** 185 949 $3.00
EPA-11020FAL03/71	1102	**Evaluation of Storm Standby Tanks, Columbus, Ohio** Dodson, Kinney and Lindblom Columbus, OH **ORDER FROM: GPO** $1.50 **NTIS-PB** 202 236
EPA-11020FAQ03/71	1102	**Dispatching System for Control of Combined Sewer Losses** Metropolitan Sewer Board St. Paul, MN **ORDER FROM: GPO** $1.75 **NTIS-PB** 203 678
EPA-11020FDC01/72	1102	**Screening/Flotation Treatment of Combined Sewer Overflows** Rex Chainbelt, Incorporated, Ecology Division Milwaukee, WI **ORDER FROM: GPO** $1.50
EPA-11020FKI01/70	1102	**Dissolved-Air Flotation Treatment of Combined Sewer Overflows** Rhodes Corporation Oklahoma City, OK **ORDER FROM: NTIS-PB** 189 775 $3.00
EPA-11022DEI05/72	1102	**Sewer Bedding and Infiltration Gulf Coast Area** BY J. K. Mayer, F. W. Macdonald, and S. E. Steimle, Tulane University New Orleans, LA **ORDER FROM: GPO** $1.50 **NTIS-PB** 211 282

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EPA-11022DMU08/70	1102	**Combined Sewer Regulation and Management – A Manual of Practice** American Public Works Association Chicago, IL **ORDER FROM: GPO** $1.50 **NTIS-PB** 195 676
EPA-11022DPP10/70	1102	**Combined Sewer Temporary Underwater Storage Facility** Melpar Falls Church, VA **ORDER FROM: GPO** $1.75 **NTIS-PB** 197 669
EPA-11022ECV09/71	1102	**Underwater Storage of Combined Sewer Overflows** Karl R. Rohrer Associates, Incorporated Akron, OH **ORDER FROM: GPO** $1.50 **NTIS-PB** 208 346
EPA-11022EFF12/70	1102	**Control of Infiltration and Inflow into Sewer Systems** American Public Works Association Chicago, IL **ORDER FROM: NTIS-PB** 200 827 $8.75
EPA-11022EFF01/71	1102	**Prevention and Correction of Excessive Infiltration and Inflow Into Sewer Systems – A Manual of Practice** American Public Works Association Chicago, IL **ORDER FROM: NTIS-PB** 203 208 $7.75
EPA-11022ELK12/71	1102	**Maximizing Storage in Combined Sewer Systems** Seattle, Municipality of Metropolitan Seattle, WA **ORDER FROM: GPO** $1.75 **NTIS-PB** 209 861
EPA-11023---08/70	1102	**Retention Basin Control of Combined Sewer Overflows** Springfield Sanitary District Springfield, IL **ORDER FROM: GPO** $1.00 **NTIS-PB** 200 828
EPA-11023DAA03/72	1102	**Hypochlorite Generator for Treatment of Combined Sewer Overflows** Ionics Incorporated Watertown, MA **ORDER FROM: GPO** $1.00 **NTIS-PB** 211 243
EPA-11023DPI08/69	1102	**Rapid-Flow Filter for Sewer Overflows** Rand Development Corporation Cleveland, OH **ORDER FROM: NTIS-PB** 194 032 $3.00
EPA-11023DZF06/70	1102	**Ultrasonic Filtration of Combined Sewer Overflows** American Process Equipment Corporation Hawthorne, CA **ORDER FROM: GPO** 60¢ **NTIS-PB** 212 421
EPA-11023EVO06/70	1102	**Microstraining and Disinfection of Combined Sewer Overflows** Crane Company, Cochrane Division King of Prussia, PA **ORDER FROM: GPO** 70¢ **NTIS-PB** 195 674
EPA-11023EYI04/72	1102	**High Rate Filtration of Combined Sewer Overflows** BY R. Nebolsine, P. J. Harvey, and Chi-Yuan Fan, Hydrotechnic Corporation New York, NY **ORDER FROM: GPO** $2.50 **NTIS-PB** 211 144
EPA-11023FDB09/70	1102	**Chemical Treatment of Combined Sewer Overflows** Dow Chemical Company Midland, MI **ORDER FROM: GPO** $1.50 **NTIS-PB** 199 070
EPA-11023FDD03/70	1102	**Rotary Vibratory Fine Screening of Combined Sewer Overflows** Cornell, Howland, Hayes and Merryfield Corvallis, OR **ORDER FROM: GPO** $1.00 **NTIS-PB** 195 168

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EPA-11023FIX08/70	1102	**Conceptual Engineering Report-Kingman Lake Project** BY R. F. Weston, Weston, Roy F. West Chester, PA **ORDER FROM: GPO** $1.25 **NTIS-PB** 197 598
EPA-11024---06/70	1102	**Combined Sewer Overflow Abatement Technology** Federal Water Quality Administraion, Storm and Combined Sewer Pollution Control Branch, Division of Applied Science and Technology Washington, DC **ORDER FROM: GPO** $2.50 **NTIS-PB** 193 939
EPA-11024DMS05/70	1102	**Engineering Investigation of Sewer Overflow Problems** Hayes, Seay, Mattern and Mattern Roanoke, VA **ORDER FROM: GPO** $2.00 **NTIS-PB** 195 201
EPA-11024DOC07/71	1102	**Storm Water Management Model, Vol. I, Final Report** Metcalf and Eddy Engineers Palo Alto, CA **ORDER FROM: NTIS-PB** 203 289 $21.25
EPA-11024DOC08/71	1102	**Storm Water Management Model, Vol. II, Verification and Testing** Metcalf and Eddy Engineers Palo Alto, CA **ORDER FROM: NTIS-PB** 203 290 $12.25
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EPA-11024DOK02/70	1102	**Proposed Combined Sewer Control by Electrode Potential** Merrimack College Andover, MA **ORDER FROM: NTIS-PB** 195 169 $3.00
EPA-11024DQU10/70	1102	**Urban Runoff Characteristics** Cincinnati, University of Cincinnati, OH **ORDER FROM: GPO** $2.75 **NTIS-PB** 202 865
EPA-11024EJC07/70	1102	**Selected Urban Storm Water Runoff Abstracts, July 1968-June 1970** Franklin Institute Research Laboratories Philadelphia, PA **ORDER FROM: GPO** $2.75 **NTIS-PB** 198 228
EPA-11024EJC10/70	1102	**Selected Urban Storm Water Runoff Abstracts, First Quarterly Issue** Franklin Institute Research Laboratories Philadelphia, PA **ORDER FROM: GPO** 50¢ **NTIS-PB** 198 229
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EPA-11024ELB01/71	1102	**Storm and Combined Sewer Pollution Sources and Abatement, Atlanta, Ga** Black, Crow and Eidsness, Incorporated Atlanta, GA **ORDER FROM: NTIS-PB** 201 725 $3.00

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EPA-11024EQG03/71	1102	**Storm Water Problems and Control in Sanitary Sewers, Oakland and Berkeley, California** Metcalf and Eddy Engineers Palo Alto, CA **ORDER FROM: GPO** $4.00 **NTIS-PB** 208 815
EPA-11024EXF08/70	1102	**Combined Sewer Overflow Abatement Alternatives, Washington, D.C.** BY R. F. Weston, Roy F. Weston, Incorporated West Chester, PA **ORDER FROM: GPO** $2.00 **NTIS-PB** 203 680
EPA-11024FJE04/71	1102	**Selected Urban Storm Water Runoff Abstracts, Third Quarterly Issue** Franklin Institute Research Laboratories Philadelphia, PA **ORDER FROM: GPO** 75¢
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EPA-11024FKJ10/70	1102	**In-Sewer Fixed Screening of Combined Sewer Overflows** Envirogenics Company, Division of Aerojet-General Corporation El Monte, CA **ORDER FROM: GPO** $1.25 **NTIS-PB** 213 118
EPA-11024FKM12/71	1102	**Urban Storm Runoff and Combined Sewer Overflow Pollution, Sacramento, California** Envirogenics Company, Division of Aerojet-General Corporation El Monte, CA **ORDER FROM: GPO** $1.75 **NTIS-PB** 208 989
EPA-11024FKN11/69	1102	**Stream Pollution and Abatement from Combined Sewer Overflows, Bucyrus, Ohio** Burgess and Niple, Limited Columbus, OH **ORDER FROM: GPO** $2.00 **NTIS-PB** 195 162
EPA-11024FLY06/71	1102	**Heat Shrinkable Tubing as Sewer Pipe Joints** Western Company of North America Richardson, TX **ORDER FROM: GPO** $1.25 **NTIS-PB** 208 816
EPA-11030DNK08/68	1103	**Beneficial Use of Storm Water** Hittman Associates, Incorporated Baltimore, MD **ORDER FROM: NTIS-PB** 195 160 $3.00
EPA-11030DNS01/69	1103	**Water Pollution Aspects of Urban Runoff** American Public Works Association Chicago, IL **ORDER FROM: NTIS-PB** 215 532 $3.00
EPA-11034DUY03/72	1103	**Investigation of Porous Pavements for Urban Runoff Control** BY E. Thelen, W. C. Grover, A. J. Hoiberg, and T. I. Haigh, Franklin Institute Research Laboratories Philadelphia, PA **ORDER FROM: NTIS-PB** 227 516 $10.00
EPA-11034FKL07/70	1103	**Storm Water Pollution From Urban Land Activity** AVCO Economic Systems Corporation Washington, DC **ORDER FROM: NTIS-PB** 195 281 $20.25
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EPA-11060DPD02/71	1106	**Combined Treatment of Municipal Kraft Linerboard and Fiberboard Manufacturing Wastes** Macon, City of, Board of Water Commissioners Macon, GA Georgia Kraft Company Macon, GA Armstrong Cork Company Macon, GA **ORDER FROM: GPO** $1.25 **NTIS-PB** 208 215
EPA-11060EOC07/69	1106	**Joint Municipal and Semichemical Pulping Wastes** Erie, City of Erie, PA **ORDER FROM: GPO** $1.50 **NTIS-PB** 185 948
EPA-11060FAE11/69	1106	**Feasibility of Joint Treatment in a Lake Watershed** BY R. F. Weston, Roy F. Weston, Incorporated West Chester, PA **ORDER FROM: NTIS-PB** 201 698 $3.00
EPA-11060FAE04/71	1106	**Onondaga Lake Study** Onondaga County Syracuse, NY **ORDER FROM: GPO** $4.50 **NTIS-PB** 206 472
EPA-12000---07/71	1200	**Projects of the Industrial Pollution Control Branch** Industrial Pollution Control Branch, Applied Science and Technology, EPA Washington, DC **ORDER FROM: GPO** $2.50
EPA-12000FLX02/71	1200	**System for Industrial Waste Treatment RD&D Project Priority Assignment** Synectics Corporation Allison Park, PA **ORDER FROM: NTIS-PB** 206 146 $1.45 microfiche
EPA-12010DIM08/70	1201	**Pyrite Depression by Reduction of Solution Oxidation Potential** Utah, University of Salt Lake City, UT **ORDER FROM: GPO** 70¢ **NTIS-PB** 200 257
EPA-12010DPF11/71	1201	**Brass Wire Mill Process Changes and Waste Abatement, Recovery and Reuse** Volco Brass and Copper Company Kenilworth, NJ **ORDER FROM: GPO** 55¢
EPA-12010DRH11/71	1201	**Ultrathin Membranes for Treating Metal Finishing Effluents by Reverse Osmosis** North Star Research and Development Institute Minneapolis, MN **ORDER FROM: GPO** $1.00 **NTIS-PB** 208 211
EPA-12010DTQ02/72	1201	**Combined Steel Mill and Municipal Wastewaters Treatment** National Steel Corporation, Weirton Steel Division Weirton, WV **ORDER FROM: GPO** $1.50 **NTIS-PB** 210 198
EPA-12010DUL02/71	1201	**Limestone Treatment of Rinse Waters from Hydrochloric Acid Pickling of Steel** Armco Steel Corporation Middleton, OH **ORDER FROM: GPO** $1.50 **NTIS-PB** 202 233
EPA-12010EIE11/68	1201	**State of the Art Review of Metal Finishing Waste Treatment** Battelle Memorial Institute Columbus, OH **ORDER FROM: GPO** $1.00 **NTIS-PB** 203 207
EPA-12010EIE03/71	1201	**Investigation of Techniques for Removal of Chromium from Electroplating Wastes** Battelle Memorial Institute Columbus, OH **ORDER FROM: NTIS-PB** 215 694 $6.75

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EPA-12010EQF03/71	1201	**Electromembrane Process for Regenerating Acid from Spent Pickle Liquor** Southern Research Institute Birmingham, AL **ORDER FROM: GPO** $1.00 **NTIS-PB** 201 651
EPA-12010EZV02/70	1201	**Treatment of Waste Water-Waste Oil Mixtures** Armco Steel Corporation Middletown, OH **ORDER FROM: NTIS-PB** 195 161 $1.45 microfiche
EPA-12020---02/70	1202	**Petrochemical Effluents Treatment Practices – Summary** Engineering-Sciences, Incorporated/Texas Austin, TX **ORDER FROM: NTIS-PB** 192 310 $3.00
EPA-12020DIS01/72	1202	**Anaerobic Treatment of Synthetic Organic Wastes** BY J. C. Hovious, J. A. Fisher, and R. A. Conway, Union Carbide Corporation South Charleston, WV **ORDER FROM: GPO** $1.75 **NTIS-PB** 211 130
EPA-12020DJI06/71	1202	**Wastewater Treatment Facilities for a Polyvinyl Chloride Production Plant** B. F. Goodrich Chemical Company Cleveland, OH **ORDER FROM: GPO** $1.00 **NTIS-PB** 211 464
EPA-12020DQC03/71	1202	**Polymeric Materials for Treatment and Recovery of Petrochemical Waste** Gulf South Research Institute New Orleans, LA **ORDER FROM: GPO** 70¢ **NTIS-PB** 201 699
EPA-12020EEQ10/71	1202	**Treatment of Wastewater from the Production of Polyhydric Organics** Dow Chemical Company, Texas Division Freeport, TX **ORDER FROM: GPO** $1.75
EPA-12020EID03/71	1202	**Preliminary Investigational Requirements – Petrochemical and Refinery Waste Treatment** Engineering-Science, Incorporated Austin, TX **ORDER FROM: GPO** $1.50 **NTIS-PB** 212 369
EPA-12020EJI07/71	1202	**Inorganic Chemicals Industry Profile** Datagraphics, Incorporated Pittsburgh, PA **ORDER FROM: GPO** $1.75 **NTIS-PB** 206 308
EPA-12020EXG03/72	1202	**Effect of Chlorination on Selected Organic Chemicals** Manufacturing Chemists Association Washington, DC **ORDER FROM: GPO** $1.00 **NTIS-PB** 211 160
EPA-12020FPD09/71	1202	**Inorganic Fertilizer and Phosphate Mining Industries – Water Pollution and Control** Battelle Memorial Institute Richland, WA **ORDER FROM: GPO** $1.75 **NTIS-PB** 206 154
EPA-12020FYE01/72	1202	**Pesticide Manufacturing Industry – Current Waste Treatment and Disposal Practices** BY P. R. Atkins, Texas, University of Austin, TX **ORDER FROM: GPO** $1.00 **NTIS-PB** 211 129
EPA-12020GND07/71	1202	**Projected Wastewater Treatment Costs in the Organic Chemicals Industry** Datagraphics, Incorporated Pittsburgh, PA **ORDER FROM: GPO** $1.50 **NTIS-PB** 206 429

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EPA-12040DLQ08/71	1204	**Slime Growth Evaluation of Treated Pulp Mill Waste** Oregon State University, Department of Microbiology Corvallis, OR **ORDER FROM: GPO** 60¢
EPA-12040EBY08/70	1204	**Aerial Photographic Tracing of Pulp Mill Effluent in Marine Waters** Oregon State University Corvallis, OR **ORDER FROM: GPO** $1.25 **NTIS-PB** 198 232
EPA-12040EEK08/71	1204	**Treatment of Selected Internal Kraft Mill Wastes in a Cooling Tower** Georgia Kraft Company Rome, GA **ORDER FROM: GPO** $1.25 **NTIS-PB** 208 217
EPA-12040EEL02/72	1204	**Reverse Osmosis Concentration of Dilute Pulp and Paper Effluents** BY A. J. Wiley, G. A. Dubey, and I. K. Bansal, Pulp Manufacturers Research League Appleton, WI Institute of Paper Chemistry Appleton, WI **ORDER FROM: GPO** $2.75 **NTIS-PB** 211 184
EPA-12040EFC01/71	1204	**Pollution Abatement by Fiber Modification** Washington, University of, College of Forest Resources Seattle, WA **ORDER FROM: GPO** 65¢ **NTIS-PB** 206 219
EPA-12040ELW12/70	1204	**Aerated Lagoon Treatment of Sulfite Pulping Effluents** Crown Zellerbach Corporation Lebanon, OR **ORDER FROM: GPO** $1.25 **NTIS-PB** 208 212
EPA-12040EMY12/71	1204	**Multi-System Biological Treatment of Bleached Kraft Effluents** Mead Corporation Chillicothe, OH **ORDER FROM: GPO** $2.00 **NTIS-PB** 208 213
EPA-12040ENC12/71	1204	**Color Removal from Kraft Pulping Effluent by Lime Addition** Interstate Paper Corporation Riceboro, GA **ORDER FROM: GPO** $1.25
EPA-12040EUG10/69	1204	**Foam Separation of Kraft Pulping Wastes** Georgia Kraft Company Rome, GA **ORDER FROM: NTIS-PB** 189 160 $3.00
EPA-12040EZZ04/70	1204	**Dilute Spent Kraft Liquor Filtration through Wood Chips** North Carolina, University of, School of Forest Resources Raleigh, NC **ORDER FROM: NTIS-PB** 191 873 $3.00
EPA-12040FES07/71	1204	**Sludge Material Recovery System for Manufacturers of Pigmented Papers** S. D. Warren Company, Division of Scott Paper Company Westbrook, ME **ORDER FROM: GPO** $1.00 **NTIS-PB** 211 026
EPA-12040FUB01/72	1204	**Recycle of Papermill Waste Waters and Application of Reverse Osmosis** BY D. C. Morris, W. R. Nelson, and G. O. Walraven, Green Bay Packaging, Incorporated Green Bay, WI **ORDER FROM: GPO** $1.00 **NTIS-PB** 211 021
EPA-12050DRC11/71	1205	**Experimental Evaluation of Fibrous Bed Coalescers for Separating Oil-Water Emulsions** Illinois Institute of Technology, Department of Chemical Engineering Chicago, IL **ORDER FROM: GPO** $1.75 **NTIS-PB** 210 144
EPA-12050DSH03/71	1205	**Impact of Oily Materials on Activated Sludge Systems** Hydroscience, Incorporated Westwood, NJ **ORDER FROM: GPO** $1.25 **NTIS-PB** 212 422
EPA-12050EKT03/71	1205	**Fluid Bed Incineration of Petroleum Refinery Wastes** American Oil Company Mandan, ND **ORDER FROM: GPO** $1.50 **NTIS-PB** 202 570

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EPA-12060---03/68	1206	**Potato Waste Treatment (Proceedings of a Symposium)** Idaho, University of Moscow, ID Pacific Northwest Water Laboratory, FWPCA Corvallis, OR **ORDER FROM: NTIS-PB** 208 218 $3.00
EPA-12060---03/68*	1206	**Aerated Lagoon Treatment of Food Processing Wastes** BY K. A. Dostal, Pacific Northwest Water Laboratory, Water Quality Office, EPA Corvallis, OR **ORDER FROM: GPO** 55¢ **NTIS-PB** 214 875
EPA-12060---07/69	1206	**Secondary Treatment of Potato Processing Wastes** Pacific Northwest Water Laboratory, Water Quality Office, EPA Corvallis, OR **ORDER FROM: NTIS-PB** 202 234 $6.50
EPA-12060---10/69	1206	**Current Practice in Potato Processing Waste Treatment** Washington, University of Seattle, WA **ORDER FROM: GPO** $1.00 **NTIS-PB** 189 232
EPA-12060---04/70	1206	**Proceedings First National Symposium on Food Processing Wastes** National Canners Association Berkeley, CA Northwest Food Processors Association Portland, OR Agriculture, U.S. Department of Albany, CA Federal Water Quality Administration Corvallis, OR **ORDER FROM: NTIS-PB** 199 709 $23.00
EPA-12060---08/70	1206	**Waste Reduction in Food Canning Operations** National Canners Association Berkeley, CA **ORDER FROM: GPO** $1.00 **NTIS-PB** 198 231
EPA-12060---10/70	1206	**Treatment of Citrus Processing Wastes** Coca-Cola Company, Foods Division Orlando, FL **ORDER FROM: GPO** $2.75 **NTIS-PB** 202 238
EPA-12060---03/71	1206	**Proceedings Second National Symposium on Food Processing Wastes** Pacific Northwest Water Laboratory, EPA Corvallis, OR National Canners Association Washington, DC **ORDER FROM: GPO** $4.50
EPA-12060DSB09/71	1206	**Demonstration of a Full-Scale Waste Treatment System for a Cannery** BY L. E. Streebin, G. W. Reid, and A. C. H. Hu, Oklahoma, University of Norman, OK **ORDER FROM: GPO** $1.50
EPA-12060DSI07/71	1206	**State-of-Art, Sugarbeet Processing Waste Treatment** Beet Sugar Development Foundation Fort Collins, CO **ORDER FROM: GPO** $1.25 **NTIS-PB** 207 646
EPA-12060DXF07/71	1206	**Membrane Processing of Cottage Cheese Whey for Pollution Abatement** Crowley's Milk Company Binghamton, NY **ORDER FROM: GPO** $1.25 **NTIS-PB** 209 936
EPA-12060DXL01/71	1206	**Reduction of Salt Content of Food Processing Liquid Waste Effluent** National Canners Association Berkeley, CA **ORDER FROM: GPO** 55¢ **NTIS-PB** 203 963
EPA-12060EAE09/71	1206	**Trickling Filter Treatment of Fruit Processing Waste Waters** National Canners Association Berkeley, CA **ORDER FROM: GPO** 50¢ **NTIS-PB** 210 586
EPA-12060ECF04/70	1206	**Current Practice in Seafoods Processing Waste Treatment** Oregon State University Corvallis, OR **ORDER FROM: NTIS-PB** 202 232 $3.00

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EPA-12060EDK08/71	1206	**Liquid Wastes from Canning and Freezing Fruits and Vegetables** National Canners Association Berkeley, CA **ORDER FROM: GPO** $1.50 **NTIS-PB** 209 941
EPA-12060EDZ08/71	1206	**Pilot Plant Installation for Fungal Treatment of Vegetable Canning Wastes** Green Giant Company Le Suer, MN **ORDER FROM: GPO** $1.00 **NTIS-PB** 208 206
EPA-12060EGU03/71	1206	**Dairy Food Plant Wastes and Waste Treatment Practices** Ohio State University, Department of Dairy Technology Columbus, OH **ORDER FROM: NTIS-PB** 231 372 $10.75
EPA-12060EHT07/70	1206	**Use of Fungi Imperfecti in Waste Control** North Star Research and Development Institute Minneapolis, MN **ORDER FROM: GPO** $1.00 **NTIS-PB** 202 231
EPA-12060EHU03/71	1206	**Reconditioning of Food Processing Brines** National Canners Association Berkeley, CA **ORDER FROM: GPO** 75¢ **NTIS-PB** 212 394
EPA-12060EHV12/70	1206	**Aerobic Secondary Treatment of Potato Processing Wastes** R. T. French Company Shelley, ID **ORDER FROM: GPO** $1.50 **NTIS-PB** 200 623
EPA-12060EZP09/70	1206	**Cannery Waste Treatment Kehr Activated Sludge** FMC Corporation Santa Clara, CA **ORDER FROM: GPO** 70¢ **NTIS-PB** 199 071
EPA-12060EZY08/71	1206	**Complete Mix Activated Sludge Treatment of Citrus Process Wastes** Winter Garden Citrus Products Cooperative Winter Garden, FL **ORDER FROM: GPO** $1.25 **NTIS-PB** 210 407
EPA-12060FAD10/69	1206	**Aerobic Treatment of Fruit Processing Wastes** Snokist Growers Yakima, WA **ORDER FROM: NTIS-PB** 188 506 $3.00
EPA-12060FDS11/71	1206	**Elimination of Water Pollution by Packing-house Animal Paunch and Blood** Beefland International, Incorporated Council Bluffs, IA **ORDER FROM: GPO** 50¢ **NTIS-PB** 211 023
EPA-12060FQE12/70	1206	**Dry Caustic Peeling of Tree Fruit for Liquid Waste Reduction** National Canners Association Berkeley, CA **ORDER FROM: GPO** 60¢ **NTIS-PB** 208 209
EPA-12080EZF09/70	1208	**Phenolic Water Reuse by Diatomite Filtration** Johns-Manville Products Corporation Manville, NJ **ORDER FROM: GPO** $1.25 **NTIS-PB** 199 069
EPA-12090DWM01/71	1209	**Bio-Regenerated Activated Carbon Treatment of Textile Dye Wastewater** Fram Corporation Providence, RI **ORDER FROM: GPO** $1.00 **NTIS-PB** 203 599
EPA-12090ECS02/71	1209	**State of the Art of Textile Waste Treatment** Clemson University Clemson, SC **ORDER FROM: GPO** $2.50 **NTIS-PB** 212 359
EPA-12090EOE01/72	1209	**Water Pollution Reduction Through Recovery of Desizing Wastes** North Carolina State University, Department of Textile Chemistry Raleigh, NC **ORDER FROM: GPO** 60¢ **NTIS-PB** 211 245

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EPA-12090ESG01/71	1209	**Zinc Precipitation and Recovery from Viscose Rayon Wastewater** American Enka Company Enka, NC **ORDER FROM: GPO** $1.00 **NTIS-PB** 205 205
EPA-12090EUX10/70	1209	**Reuse of Chemical Fiber Plant Wastewater and Cooling Water Blowdown** Fiber Industries, Incorporated Charlotte, NC Davis and Floyd Engineers, Incorporated Greenwood, SC **ORDER FROM: GPO** 70¢ **NTIS-PB** 200 695
EPA-12120---09/69	1212	**Activated Sludge Treatment of Chrome Tannery Wastes** A. C. Lawrence Company Peabody, MA **ORDER FROM: GPO** $2.00 **NTIS-PB** 186 158
EPA-12120---09/70	1212	**Treatment of Sole Leather Vegetable Tannery Wastes** BY J. D. Eye, Cincinnati, University of Cincinnati, OH **ORDER FROM: GPO** $1.25 **NTIS-PB** 199 068
EPA-12120DIK12/70	1212	**Anaerobic-Aerobic Lagoon Treatment for Vegetable Tanning Wastes** Virginia, University of Charlottesville, VA **ORDER FROM: GPO** $1.00 **NTIS-PB** 202 235
EPA-12120ERC08/69	1212	**Disposal of Wastes from Water Treatment Plants** American Water Works Association Research Foundation New York, NY **ORDER FROM: NTIS-PB** 186 157 $3.00
EPA-12120ESW06/71	1212	**Magnesium Carbonate, A Recycled Coagulant for Water Treatment** Gainesville, City of, Department of Public Utilities Gainesville, FL **ORDER FROM: GPO** $1.00 **NTIS-PB** 209 938
EPA-12120EUR11/71	1212	**Information Resource: Water Pollution Control in the Water Utility Industry** American Water Works Association Research Foundation New York, NY **ORDER FROM: GPO** $1.50 **NTIS-PB** 209 860
EPA-12120FYF03/72	1212	**Fluidized-Bed Incineration of Selected Carbonaceous Industrial Wastes** Battelle Laboratories Columbus, OH **ORDER FROM: GPO** $1.00 **NTIS-PB** 211 161
EPA-12130DUJ09/71	1213	**Whey Effluent Packed Tower Trickling Filtration** Quirk, Lawler and Matusky Engineers Tappan, NY Walton, Village of Walton, NY **ORDER FROM: GPO** $1.50 **NTIS-PB** 210 408
EPA-12130EDX07/70	1213	**Joint Treatment of Municipal Sewage and Pulp Mill Effluents** Green Bay Metropolitan Sewerage District Green Bay, WI **ORDER FROM: GPO** $6.00
EPA-12130EGK06/71	1213	**Biological Treatment of Chlorophenolic Wastes** Jacksonville, City of Jacksonville, AR **ORDER FROM: GPO** $1.50 **NTIS-PB** 206 813
EPA-12130EZR05/71	1213	**Combined Treatment of Domestic and Industrial Wastes by Activated Sludge** Dallas, City of Dallas, TX **ORDER FROM: GPO** $1.25 **NTIS-PB** 205 206
EPA-12130FJQ06/71	1213	**Pollution Abatement and By-Product Recovery in Shellfish and Fisheries Processing** Food, Chemical and Research Laboratories, Incorporated Seattle, WA Engineering-Science of Alaska Anchorage, AK **ORDER FROM: GPO** $1.00 **NTIS-PB** 208 214
EPA-13010---02/70	1301	**Industrial Waste Guide on Logging Practices** Northwest Region, FWPCA Portland, OR **ORDER FROM: NTIS-PB** 207 644 $3.00

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EPA-13010EGA02/71	1301	**Studies on Effects of Watershed Practices on Streams** Oregon State University Corvallis, OR **ORDER FROM: GPO** $1.50
EPA-13020---07/71	1302	**Agricultural Pollution of the Great Lakes Basin** Canada, Government of U. S., Government of EPA, Washington, DC **ORDER FROM: GPO** $1.50 **NTIS-PB** 206 906
EPA-13020DGX08/71	1302	**Role of Animal Wastes in Agricultural Land Runoff** North Carolina State University, School of Agricultural and Life Sciences Raleigh, NC **ORDER FROM: GPO** $1.25 **NTIS-PB** 209 213
EPA-13020DPB08/71	1302	**Management of Nutrients on Agricultural Land for Improved Water Quality** Cornell University, Department of Agronomy, College of Agriculture and Life Sciences Ithaca, NY **ORDER FROM: GPO** $1.25 **NTIS-PB** 209 858
EPA-13030---05/69	1303	**Characteristics and Pollution Problems of Irrigation Return Flow** Utah State University Foundation Logan, UT **ORDER FROM: NTIS-PB** 204 817 $3.00
EPA-13030---11/71	1303	**Research Needs for Irrigation Return Flow Quality Control** BY G. V. Skogerboe, and J. P. Law, Colorado State University Fort Collins, CO Robert S. Kerr Water Research Center, EPA Ada, OK **ORDER FROM: GPO** $1.00 **NTIS-PB** 219 979
EPA-13030DYY06/69	1303	**Water Quality Management Problems in Arid Regions** Robert S. Kerr Water Research Center, Federal Water Quality Administration Ada, OK **ORDER FROM: NTIS-PB** 198 125 $3.00
EPA-13030ELY12/69	1303	**Collected Papers Regarding Nitrates in Agricultural Waste Waters** Federal Water Quality Administration San Francisco, CA Reclamation, U.S. Bureau of Sacramento, CA California Department of Water Resources San Joaquin Valley, CA **ORDER FROM: GPO** $1.50 **NTIS-PB** 197 595
EPA-13030ELY04/71–07	1303	**Removal of Nitrate by an Algal System** California Departmrnt of Water Resources San Joaquin Valley, CA **ORDER FROM: GPO** $1.25 **NTIS-PB** 205 425 $3.00
EPA-13030ELY04/71–08	1303	**Denitrification by Anaerobic Filters and Ponds** Robert S. Kerr Water Research Center, EPA Ada, OK **ORDER FROM: GPO** 75¢ **NTIS-PB** 213 719
EPA-13030ELY05/71–12	1303	**Desalination of Agricultural Tile Drainage** Robert S. Kerr Water Research Center, EPA Ada, OK **ORDER FROM: GPO** $1.00 **NTIS-PB** 213 890
EPA-13030ELY05/71–03	1303	**Nutrients from Tile Drainage Systems** California Department of Water Resources San Joaquin Valley, CA **ORDER FROM: GPO** $1.00 **NTIS-PB** 216 552
EPA-13030ELY05/71–06	1303	**Removal of Nitrogen from Tile Drainage – A Summary Report** California Department of Water Resources San Joaquin Valley, CA Environmental Protection Agency Ada, OK **ORDER FROM: GPO** 50¢ **NTIS-PB** 215 417
EPA-13030ELY06/71–10	1303	**Techniques to Reduce Nitrogen in Drainage Effluent During Transport** Reclamation, U.S. Bureau of, Region II Sacramento, CA **ORDER FROM: GPO** 60¢

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EPA-13030ELY06/71–13	1303	**Removal of Nitrate by an Algal System – Phase II** California Department of Water Resources San Joaquin Valley, CA **ORDER FROM: GPO** $2.10
EPA-13030ELY06/71–14	1303	**Denitrification by Anaerobic Filters and Ponds – Phase II** Robert S. Kerr Water Research Center, EPA Ada, OK **ORDER FROM: GPO** $1.00
EPA-13030ELY08/71–09	1303	**Effects of Agricultural Waste Water Treatment on Algal Bioassay Response** Environmental Protection Agency San Francisco, CA **ORDER FROM: GPO** $1.00 **NTIS-PB** 213 891
EPA-13030ELY05/72–11	1303	**Possibility of Reducing Nitrogen in Drainage Water by On Farm Practices** Reclamation, U.S. Bureau of Sacramento, CA **ORDER FROM: GPO** $1.25 **NTIS-PB** 221 482
EPA-13030GJS12/71	1303	**National Irrigation Return Flow Research and Development Program** BY J. P. Law Jr., Robert S. Kerr Water Research Center, EPA Ada, OK **ORDER FROM: GPO** 40¢ **NTIS-PB** 209 857
EPA-13040---07/68	1304	**Pollution Implications of Animal Wastes – A Forward Oriented Review** BY R. C. Loehr, Cornell University Ithaca, NY **ORDER FROM: NTIS-PB** 204 818 $3.00
EPA-13040DEM01/71	1304	**Characteristics of Wastes from Southwestern Cattle Feedlots** Texas Technology University Lubbock, TX **ORDER FROM: GPO** $1.25 **NTIS-PB** 209 214
EPA-13040DKP06/71	1304	**Closed System Waste Management for Livestock** BY P. O. Ngoddy, J. P. Harper, F. A. Heidar, R. K. Collins, and G. D. Wells, Michigan State University East Lansing, MI **ORDER FROM: GPO** $1.25 **NTIS-PB** 211 022
EPA-13040EYX11/69	1304	**Agricultural Practices and Water Quality** Iowa State University Ames, IA **ORDER FROM: NTIS-PB** 199 828 $3.00
EPA-13040FXG11/71	1304	**Evaluation of Beef Cattle Feedlot Waste Management Alternatives** BY A. F. Butchbaker, J. E. Garton, G. W. A. Mahoney, and M. D. Paine, Oklahoma State University Stillwater, OK **ORDER FROM: GPO** $2.50 **NTIS-PB** 211 242
EPA-14010---06/70	1401	**Oxygenation of Ferrous Iron** Harvard University Cambridge, MA **ORDER FROM: GPO** $1.75 **NTIS-PB** 189 233
EPA-14010DAY06/71	1401	**Inorganic Sulfur Oxidation by Iron-Oxidizing Bacteria** Syracuse University Syracuse, NY **ORDER FROM: GPO** $1.25 **NTIS-PB** 213 006
EPA-14010DDH08/71	1401	**Control of Mine Drainage from Coal Mine Mineral Wastes – Phase I – Hydrology and Related Experiments** Truax-Traer Coal Company Pinckneyville, IL **ORDER FROM: GPO** $1.25 **NTIS-PB** 206 194
EPA-14010DEE12/70	1401	**Treatment of Acid Mine Drainage** Horizons, Incorporated Cleveland, OH **ORDER FROM: GPO** $1.00 **NTIS-PB** 197 470

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EPA-14010DII05/71	1401	**Rotary Precoat Filtration of Sludge from Acid Mine Drainage Neutralization** Johns-Manville Products Corporation Manville, NJ **ORDER FROM: GPO** $1.25 **NTIS-PB** 203 190
EPA-14010DKN11/70	1401	**Microbial Factor in Acid Mine Drainage Formation** Mellon Institute, Carnegie-Mellon University Pittsburgh, PA **ORDER FROM: GPO** 70¢ **NTIS-PB** 196 113
EPA-14010DLC11/69	1401	**Sulfide Treatment of Acid Mine Drainage** Bituminous Coal Research, Incorporated Monroeville, PA **ORDER FROM: NTIS-PB** 187 866 $3.00
EPA-14010DLI02/71	1401	**Silicate Treatment for Acid Mine Drainage Prevention** Tyco Laboratories, Incorporated Waltham, MA **ORDER FROM: GPO** $1.00 **NTIS-PB** 198 427
EPA-14010DMO03/70	1401	**New Mine Sealing Techniques for Water Pollution Abatement** Halliburton Company Duncan, OK **ORDER FROM: GPO** $1.50 **NTIS-PB** 196 736
EPA-14010DMO03/70-A	1401	**Investigative Mine Survey of a Small Watershed** Halliburton Company Duncan, OK **ORDER FROM: GPO** $2.00 **NTIS-PB** 196 110
EPA-14010DRB05/71	1401	**Flocculation and Clarification of Mineral Suspensions** Minnesota, University of Minneapolis, MN **ORDER FROM: GPO** $1.25 **NTIS-PB** 206 238
EPA-14010DRZ02/71	1401	**Purification of Mine Water by Freezing** Applied Science Laboratories, Incorporated State College, PA **ORDER FROM: GPO** 70¢ **NTIS-PB** 213 121
EPA-14010DYG08/71	1401	**Acid Mine Waste Treatment Using Reverse Osmosis** Gulf Environmental Systems Company San Diego, CA **ORDER FROM: GPO** $1.00 **NTIS-PB** 202 228
EPA-14010DYH12/71	1401	**Neutradesulfating Treatment Process for Acid Mine Drainage** Catalytic, Incorporated Philadelphia, PA **ORDER FROM: GPO** $1.00 **NTIS-PB** 213 720
EPA-14010DYI02/71	1401	**Evaluation of a New Acid Mine Drainage Treatment Process** Black, Sivalls and Bryson, Incorporated Pittsburgh, PA **ORDER FROM: GPO** $1.50 **NTIS-PB** 202 571
EPA-14010DYK03/70	1401	**Treatment of Acid Mine Drainage by Reverse Osmosis** Rex Chainbelt, Incorporated Milwaukee, WI Pennsylvania, Commonwealth of Harrisburg, PA **ORDER FROM: GPO** 55¢ **NTIS-PB** 195 200
EPA-14010DZM08/70	1401	**Feasibility Study of Mining Coal in an Oxygen Free Atmosphere** Island Creek Coal Company Holden, WV Cyrus Wm. Rice Division, NUS Corporation Pittsburgh, PA **ORDER FROM: GPO** $1.50 **NTIS-PB** 197 446
EPA-14010ECC08/71	1401	**Effects of Various Gas Atmospheres on the Oxidation of Coal Mine Pyrites** Cyrus Wm. Rice Division, NUS Corporation Pittsburgh, PA **ORDER FROM: GPO** $1.25 **NTIS-PB** 203 679
EPA-14010EFK06/72	1401	**Use of Latex as a Soil Sealant to Control Acid Mine Drainage** Uniroyal, Incorporated Wayne, NJ **ORDER FROM: GPO** $1.00 **NTIS-PB** 213 040

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EPA-14010EGJ11/69	1401	**Effects of Antibacterial Agents on Mine Drainage** MSA Research Corporation Evans, PA Pennsylvania Department of Mines and Mineral Industries Harrisburg, PA **ORDER FROM: NTIS-PB** 191 215 $3.00
EPA-14010EHN04/71	1401	**Detection of Abandoned Underground Coal Mines by Geophysical Methods** HRB-Singer, Incorporated State College, PA **ORDER FROM: GPO** $1.00 **NTIS-PB** 211 554
EPA-14010EIZ01/70	1401	**Limestone Treatment of Acid Mine Drainage** Bituminous Coal Research, Incorporated Monroeville, PA **ORDER FROM: GPO** $1.25 **NTIS-PB** 195 282
EPA-14010EIZ12/71	1401	**Studies of Limestone Treatment of Acid Mine Drainage – Part II** Bituminous Coal Research, Incorporated Monroeville, PA **ORDER FROM: GPO** $1.25 **NTIS-PB** 208 326
EPA-14010EJE12/71	1401	**Mine Spoil Potentials for Water Quality and Controlled Erosion** West Virginia University, College of Agriculture and Forestry Morgantown, WV **ORDER FROM: GPO** $1.75 **NTIS-PB** 208 817
EPA-14010EJT09/71	1401	**Studies on Densification of Coal Mine Drainage Sludge** Bituminous Coal Research, Incorporated Monroeville, PA **ORDER FROM: GPO** $1.25 **NTIS-PB** 203 189
EPA-14010EMS09/69	1401	**Bulk Transport of Waste Slurries to Inland and Ocean Disposal Sites – Vol. I** Bechtel Corporation San Francisco, CA **ORDER FROM: NTIS-PB** 189 757 $3.00
EPA-14010EMS09/69*	1401	**Bulk Transport of Waste Slurries to Inland and Ocean Disposal Sites – Vol. II** Bechtel Corporation San Francisco, CA **ORDER FROM: NTIS-PB** 189 758 $3.00
EPA-14010EMS09/69**	1401	**Bulk Transport of Waste Slurries to Inland and Ocean Disposal Sites – Vol. III** Bechtel Corporation San Francisco, CA **ORDER FROM: NTIS-PB** 189 759 $3.00
EPA-14010EMS09/69***	1401	**Bulk Transport of Waste Slurries to Inland and Ocean Disposal Sites – Summary** Bechtel Corporation San Francisco, CA **ORDER FROM: NTIS-PB** 189 756 $3.00
EPA-14010ENW09/71	1401	**Microbiological Treatment of Acid Mine Drainage Waters** Continental Oil Company Ponca City, OK **ORDER FROM: GPO** $1.00 **NTIS-PB** 206 231
EPA-14010ETV08/70	1401	**Neutralization of High Ferric Iron Acid Mine Drainage** BY R. C. Wilmoth, and R. D. Hill, Federal Water Quality Administration Cincinnati, OH **ORDER FROM: GPO** 50¢ **NTIS-PB** 192 087
EPA-14010EXA03/71	1401	**Pilot Scale Study of Acid Mine Drainage** Ohio State University Columbus, OH **ORDER FROM: GPO** $1.00 **NTIS-PB** 214 771
EPA-14010FBZ09/71	1401	**Concentrated Mine Drainage Disposal Into Sewage Treatment Systems** Environmental Research and Applications, Incorporated Wilton, CT **ORDER FROM: GPO** 75¢ **NTIS-PB** 213 042
EPA-14010FII03/71	1401	**Evaluation of Pyritic Oxidation by Nuclear Methods** Carnegie-Mellon University, Mellon Institute Pittsburgh, PA **ORDER FROM: GPO** 50¢ **NTIS-PB** 198 523

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EPA-14010FJX12/71	1401	**Dewatering of Mine Drainage Sludge** West Virginia University, Coal Research Bureau Morgantown, WV **ORDER FROM: GPO** $1.00 **NTIS-PB** 208 347
EPA-14010FKK12/70	1401	**Underground Coal Mining Methods to Abate Water Pollution** West Virginia University Morgantown, WV **ORDER FROM: GPO** 60¢ **NTIS-PB** 214 697
EPA-14010FLW07/70	1401	**Feasibility Study Manual – Mine Water Pollution Control Demonstration** Federal Water Quality Administration Washington, DC **ORDER FROM: GPO** 65¢ **NTIS-PB** 197 594
EPA-14010FMH12/70	1401	**Treatment of Acid Mine Drainage by Ozone Oxidation** Atomic Energy Commission Upton, NY Brookhaven National Laboratories Upton, NY Associated Universities, Incorporated Upton, NY **ORDER FROM: GPO** $1.00 **NTIS-PB** 198 225
EPA-14010FNQ02/72	1401	**Electrochemical Treatment of Acid Mine Waters** Tyco Laboratories, Incorporated Waltham, MA **ORDER FROM: GPO** $1.00 **NTIS-PB** 208 820
EPA-14010FOA02/71	1401	**Carbonate Bonding of Coal Refuse** Black, Sivalls and Bryson, Incorporated Pittsburgh, PA **ORDER FROM: GPO** 60¢ **NTIS-PB** 198 230
EPA-14010FPR04/71	1401	**Acid Mine Drainage Formation and Abatement** Ohio State University Research Foundation Columbus, OH **ORDER FROM: NTIS-PB** 199 835 $3.00
EPA-14010FPS02/70	1401	**Sulfide to Sulfate Reaction Mechanism** Ohio State University Research Foundation Columbus, OH **ORDER FROM: GPO** $1.50
EPA-14010FQR03/72	1401	**Reverse Osmosis Demineralization of Acid Mine Drainage** Rex Chainbelt, Incorporated, Ecology Division Milwaukee, WI **ORDER FROM: GPO** $1.00 **NTIS-PB** 211 020
EPA-14010FUI10/71	1401	**Foam Separation of Acid Mine Drainage** Horizons, Incorporated Cleveland, OH **ORDER FROM: GPO** 65¢ **NTIS-PB** 208 411
EPA-14010FYY09/71	1401	**Study of Sulfur Recovery from Coal Refuse** Black, Sivalls and Bryson, Incorporated Pittsburgh, PA **ORDER FROM: GPO** 70¢ **NTIS-PB** 203 488
EPA-14010FZU03/72	1401	**Legal Problems of Coal Mine Reclamation** Maryland School of Law, University of Baltimore, MD **ORDER FROM: GPO** $2.00 **NTIS-PB** 209 862
EPA-14010HBQ09/71	1401	**Feasibility Study Upper Meander Creek Mine Drainage Abatement Project** Stanley Consultants Cleveland, OH **ORDER FROM: GPO** 60¢ **NTIS-PB** 206 232
EPA-14030EDB12/71	1403	**Water Pollution Potential of Spent Oil Shale Residues** Colorado State University Fort Collins, CO **ORDER FROM: GPO** $1.25 **NTIS-PB** 206 808
EPA-14050EPU08/71	1405	**Utilization of Phosphate Slime** International Minerals and Chemical Corporation Skokie, IL **ORDER FROM: GPO** $1.25 **NTIS-PB** 203 191

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EPA-16130DHS07/69	1613	**Survey of Alternate Methods for Cooling Condenser Discharge Water – Large Scale Heat Rejection Equipment** Dynatech R/D Company Cambridge, MA **ORDER FROM: GPO** $1.25 **NTIS-PB** 208 036
EPA-16130DHS08/70	1613	**Survey of Alternate Methods for Cooling Condenser Discharge Water – Operating Characteristics and Design Criteria** Dynatech R/D Company Cambridge, MA **ORDER FROM: GPO** $1.00 **NTIS-PB** 208 035
EPA-16130DHS11/70	1613	**Survey of Alternate Methods for Cooling Condenser Discharge Water – Total Community Considerations in the Utilization of Rejected Heat** Dynatech R/D Company Cambridge, MA **ORDER FROM: GPO** 65¢ **NTIS-PB** 206 816
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EPA-16130EES11/70	1613	**Research on Dry-Type Cooling Towers for Thermal Electric Generation, Part I** R. W. Beck and Associates Denver, CO **ORDER FROM: GPO** $2.50 **NTIS-PB** 206 954
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EPA-16130ENT12/69	1613	**Thermal Pollution: Status of the Art** Vanderbilt University Nashville, TN **ORDER FROM:** (Vanderbilt – $4.00)
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EPA-16130GFI06/71	1613	**Potential Environmental Effects of an Offshore Submerged Nuclear Power Plant, Vol. I** General Dynamics, Electric Boat Division Groton, CT **ORDER FROM: GPO** $2.50 **NTIS-PB** 208 281
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EPA-16130GKF12/70	1613	**Method for Predicting the Performance of Natural Draft Cooling Towers** Pacific Northwest Water Laboratory, EPA Corvallis, OR **ORDER FROM: GPO** 70¢ **NTIS-PB** 210 125
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EPA-17010---10/68	1701	**Dilute Solution Reactions of the Nitrate Ion as Applied to Water Reclamation** Rocketdyne, Division of North American Rockwell Corporation Canoga Park, CA **ORDER FROM: NTIS-PB** 190 195 $3.00

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EPA-17010DXD08/70	1701	**Phosphorus Removal by an Activated Sludge Plant** Milwaukee, Sewerage Commission of the City of Milwaukee, WI **ORDER FROM: GPO** $1.00
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EPA-17010EAP10/70	1701	**Feasibility of Liquid Ion Exchange for Extracting Phosphate from Wastewater** General Mills Chemicals, Incorporated Minneapolis, MN **ORDER FROM: GPO** 50¢ **NTIS-PB** 205 360
EPA-17010ECZ03/69	1701	**Ammonia Removal from Agricultural Runoff and Secondary Effluents by Selected Ion Exchange** Battelle Memorial Institute Richland, WA **ORDER FROM: NTIS-PB** 187 759 $3.00

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EPA-17010EDO06/70	1701	**Phosphorus Removal Using Chemical Coagulation and a Continuous Countercurrent Filtration Process** Johns-Manville Products Corporation Manville, NJ **ORDER FROM: GPO** 65¢ **NTIS-PB** 196 734
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EPA-17010EEX10/70	1701	**Development of a Chemical Denitrification Process** Rocketdyne Research, North American Rockwell Canoga Park, CA **ORDER FROM: GPO** 65¢ **NTIS-PB** 203 597
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EPA-17010EIP05/71	1701	**Soluble Phosphorus Removal in the Activated Sludge Process, Part I: Chemical-Biological Process Performance** Soap and Detergent Association New York, NY **ORDER FROM: GPO** $1.25 **NTIS-PB** 211 563
EPA-17010EIP10/71	1701	**Soluble Phosphorus Removal in the Activated Sludge Process, Part II: Sludge Digestion Study** Soap and Detergent Association New York, NY **ORDER FROM: GPO** 65¢ **NTIS-PB** 211 564
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EPA-17010ELQ08/71	1701	**Advanced Wastewater Treatment as Practiced at South Tahoe** South Tahoe Public Utility District South Lake Tahoe, CA **ORDER FROM: GPO** $3.25 **NTIS-PB** 204 525
EPA-17010EVB11/70	1701	**Process Alternatives for Removal of Carbonaceous, Nitrogenous, and Phosphorus Materials from Concentrated Waste Streams** Engineering-Science, Incorporated Oakland, CA **ORDER FROM: GPO** 35¢
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EPA-17010FJY02/69	1701	**Alumina Columns for Selective Removal of Phosphorous from Wastewater** Battelle Memorial institute, Pacific Northwest Laboratory Richland, WA **ORDER FROM: NTIS-PB** 189 405 $3.00
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EPA-17010FMX01/71	1701	**Nitrification and Denitrification of Wastewater** Minnesota, University of Minneapolis, MN **ORDER FROM: NTIS-PB** 202 350 $3.00
EPA-17010FSJ01/71	1701	**Nitrate Removal from Wastewater by Ion Exchange** Dow Chemical Company Walnut Creek, CA **ORDER FROM: GPO** $1.00 **NTIS-PB** 204 527
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EPA-17020DNQ09/69	1702	**Study of Powdered Carbons for Waste Water Treatment and Methods for Their Applications** West Virginia Pulp and Paper Company Covington, WV **ORDER FROM: NTIS-PB** 191 538 $3.00
EPA-17020DUD09/70	1702	**New Technology for Treatment of Wastewater by Reverse Osmosis** Envirogenics Company, Division of Aerojet-General El Monte, CA **ORDER FROM: GPO** 70¢ **NTIS-PB** 199 362
EPA-17020DUE09/70	1702	**Light-Catalyzed Chlorine Oxidation for Treatment of Wastewater** Midwest Research Institute Kansas City, MO **ORDER FROM: GPO** $1.00 **NTIS-PB** 202 230
EPA-17020DVJ05/69	1702	**Appraisal of Granular Carbon Contacting; Phase I and II** Swindell-Dressler Company Pittsburgh, PA **ORDER FROM: NTIS-PB** 190 168 $3.00
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EPA-17040---05/70*	1704	**Study and Experiments in Waste Water Reclamation by Reverse Osmosis** Gulf General Atomic, Incorporated San Diego, CA **ORDER FROM: GPO** $1.25 **NTIS-PB** 198 092
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EPA-17040EFQ12/69	1704	**Reverse Osmosis Renovation of Municipal Wastewater** Aerojet-General Corporation El Monte, CA **ORDER FROM: GPO** $1.50 **NTIS-PB** 197 659
EPA-17040EFQ02/71	1704	**Reverse Osmosis Renovation of Primary Sewage** Aerojet-General Corporation El Monte, CA **ORDER FROM: GPO** 65¢ **NTIS-PB** 207 645
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EPA-17090---12/67	1709	**Compilation of Cost Information for Conventional and Advanced Wastewater Treatment Plants and Processes** BY R. Smith, Advanced Water Treatment Research Laboratory, Cincinnati, OH **ORDER FROM: NTIS-PB** 206 430 $3.00
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EPA-17090---06/69	1709	**Cost and Performance Estimates for Tertiary Wastewater Treating Processes** Robert A. Taft Water Research Center Cincinnati, OH **ORDER FROM: NTIS-PB** 189 953 $3.00
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EPA-17090DAN10/71	1709	**Estimating Costs and Manpower Requirements for Conventional Wastewater Treatment Facilities** BY W. L. Patterson, and R. F. Banker, Black and Veatch Consulting Engineers Kansas City, MO **ORDER FROM: GPO** $2.85 **NTIS-PB** 211 132
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EPA-17090EEM12/71	1709	**Investigation of Response Surfaces of the Microscreen Process** Engineering-Science, Incorporated Cincinnati, OH **ORDER FROM: GPO** $1.25 **NTIS-PB** 211 451
EPA-17090EHQ09/69	1709	**Mathematical Model of Sewage Sludge Fluidized Bed Incinerator Capacities and Costs** General American Transportation Corporation, General American Research Division Niles, IL **ORDER FROM: NTIS-PB** 189 295 $3.00

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EPA-18010DPV12/70	1801	**Water Quality Criteria Data Book, Vol. 1 – Organic Chemical Pollution of Freshwater** Arthur D. Little, Incorporated Cambridge, MA **ORDER FROM: GPO** $3.50 **NTIS-PB** 208 987
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EPA-18040DAZ04/72	1804	**Water Quality Criteria Data Book, Vol. 4 – An Investigation into Recreational Water Quality** BY B. J. Mechalas, K. K. Hekimian, L. A. Schinazi, and R. H. Dudley, Envirogenics Company, Division of Aerojet-General Corporation El Monte, CA **ORDER FROM: GPO** $3.00 **NTIS-PB** 214 154
EPA-18050---03/70	1805	**Effects of Abatement of Domestic Sewage Pollution on the Benthos, Volumes of Zooplankton, and the Fouling Organisms of Biscayne Bay, Florida** BY K. McNulty, Miami, University of, Institute of Marine and Atmospheric Sciences Miami, FL **ORDER FROM:** (Univ. of Miami)
EPA-18050DAI02/70	1805	**Biological Effects of Effluent from a Desalination Plant at Key West, Florida** Westinghouse Electric Corporation Pittsburgh, PA **ORDER FROM: GPO** $1.00 **NTIS-PB** 195 677
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EPA-18050DKC12/69	1805	**Plankton Diatom Assemblages in Lake Michigan** Michigan, University of Ann Arbor, MI **ORDER FROM: GPO** $2.00 **NTIS-PB** 198 087
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EPA-18050DXU06/70	1805	**Sensitivity of Benthic Microflora to Pollution Gradients** BY N. Marshal, and C. A. Orviatt, Rhode Island, University of Kingston, RI BY D. M. Skauen, Connecticut, University of Storrs, CT **ORDER FROM: NTIS-PB** 192 853 $3.00
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EPA-18050ELD02/72*	1805	**Biota of Freshwater Ecosystems – Identification Manual No. 2 Genus Argulus (Crustacea: Branchitura) of the United States** BY R. F. Cressey, Smithsonian Institution Washington, DC **ORDER FROM: GPO** $2.50 **NTIS-PB** 222 923
EPA-18050ELD03/72	1805	**Biota of Freshwater Ecosystems – Identification Manual No. 3 Freshwater Sphaeriacean Clams (Mollusca: Pelecypoda) of North America** BY J. B. Burch, Michigan, University of, Museum of Zoology Ann Arbor, MI **ORDER FROM: GPO** $2.50 **NTIS-PB** 222 924
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EPA-18050ELD04/72*	1805	**Biota of Freshwater Ecosystems – Identification Manual No. 6 Aquatic Dryopoid Beetles (Coleoptera) of the United States** BY H. P. Brown, Oklahoma, University of, Department of Zoology Norman, OK **ORDER FROM: GPO** $2.50 **NTIS-PB** 222 927
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EPA-18050ELD05/72*	1805	**Biota of Freshwater Ecosystems – Identification Manual No. 8 Freshwater Leeches (Annelida: Hirudinea) of North America** BY D. J. Klemm, Michigan, University of, Museum of Zoology Ann Arbor, MI **ORDER FROM: GPO** $2.50 **NTIS-PB** 222 929
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EPA-18050ELD01/73	1805	**Biota of Freshwater Ecosystems – Identification Manual No. 10 – Genera of Freshwater Nematodes (Nematoda) of Eastern North America** BY V. R. Ferris, J. M. Ferris, and J. P. Tjepkema, Purdue University West Lafayette, IN **ORDER FROM: GPO** $4.00 **NTIS-PB** 224 830/AS
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